

**Tetrahydro-pyrido(3,4-d)pyridazine-1,4-dione derivs. prepns. - from 4-phenyl-oxazole and N-substd. maleimides**  
**Patent Assignee:** TAKEDA CHEM IND LTD

**Patent Family (1 patent, 1 country)**

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**Alerting Abstract:** JP A

7-Phenyl-1,2,3,4-tetrahydropyrido(3,4-d)pyridazine-1,4-dione (I) was prepnd. by (1) Diels-Alder reaction of 4-phenyloxazole (II) with N-substd. maleimides (III); (R = aliphatic or aromatic residues), (2) dehydration of the resulting (IV) in the presence of acids or bases, and (3) reaction of the resulting (V) with NH<sub>2</sub>NH<sub>2</sub>. (I) has hypotensive and diuretic activities. In an example, reflux of 11.6 parts (II) and 14 parts (III) (R = Ph) in C<sub>6</sub>H<sub>6</sub> 32 hr. gave 95.6% (IV) (R = Ph) (V(VI). Reflux of 8 parts (VI) and 2 parts SnCl<sub>4</sub> in EtOH 1.5 hr. gave 80% (V) (R = Ph)(VII). Heating 3 parts (VII) with 30 parts 80% NH<sub>2</sub>NH<sub>2</sub>.H<sub>2</sub>O in (CH<sub>2</sub>OH)<sub>2</sub> 50 min. at 108-10 degrees C. gave 96% (I).

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